CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:	
	Febru	uary 2004					
APPROPRIATION/BUDGET ACTIVITY	BER AND NAME	ER AND NAME					
RDT&E, N / BA-4	SURFACE SHI	P TORPEDO D	EFENSE / 0603	506N	Surface Ship To	rpedo Defense 02	25/2854
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	13.929	44.891	46.896	47.475	39.617	27.658	12.653
Tripwire Torpedo Defense							
2854	9.710	2.521	0.000	0.000	0.000	0.000	0.000
Surface Ship Torpedo Defense							
0225	4.219	42.370	46.896	47.475	39.617	27.658	12.653

Defense Emergency Response Funds (DERF) Funds: Not Applicable

A.	Mission Description and Budget Line Justification:	Project 0225/2854 develops	Tripwire AN/WSQ-1	1 Torpedo Defense	System (TDS) v	vhich will provide th	e Tripwire towed
se	nsors and processors to detect threat torpedo and	provide launch orders for asso	ciated Anti-Torpedo	Torpedo (ATT) All-U	p-Round (AUR)	countermeasure.	The AN/WSQ-11
TD	S will incorporate the functionality of the AN/SLQ-	25A (NIXIE) Towed Torpedo (Countermeasure. The	e AN/WSQ-11 is pla	inned for installa	ation on large deck	ships, i.e. CVN,
am	phibious (LHA, LHD, LPD, LSD, AGF, LCC)/Comb	atant Logistic Forces (AOE), a	and selected DDG-51	Class ships without	towed array. T	he AN/WSQ-11 is	planned for fleet
int	roduction in FY11 with a Block II (simple salvo) cap	pability. A complex salvo Bloc	k III capability is plan	ned for FY13 fleet in	ntroduction. The	AN/WSQ-11 TDS	is closely linked
wit	h the ONR FNC program (Platform Protection and I	ittoral ASW) which provides a	dvance technology in	serts at key transition	n points in the A	N/WSQ-11 schedu	le

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND	NAME
RDT&E, N / BA-4	Surface Ship Torpedo Defense, 0603506N	Surface Ship Torpedo De	fense 0225/2854

B. Accomplishments/Planned Program

	FY 03 (F0225)	FY 04 (F0225)	FY 05 (F0225)
Accomplishments/Effort/Subtotal Cost	4.219	42.370	46.896
RDT&E Articles Quantity			

AN/WSQ-11 SYSTEM

- FY03 Continue AN/WSQ-11 component Advanced Development, Simulation and Modeling, and prototype component in water trials.
- FY04 Award two Industry contracts for conduct of Tripwire DCL DEMO; Initiate ARL PSU development of ATT ADM
- FY05 Conduct DCL DEMO trials; Continue ATT ADM development and initial in water trials.
- FY06 Conduct final DCL DEMO and continue ATT ADM in-water trials; Award post MS B competitive contract for AN/WSQ-11 development.

ANTI-TORPEDO TORPEDO (ATT)

- FY04 Continue ATT Component Testing; Initiate fabrication of ATT ADM units.
- FY05 Continue fabrication of ADM ATT AURs; Conduct first In-water testing of ADM units. (CT-1)
- FY06 Continue in water testing (CT2 and CT3) ADM units and initiate post MS B EDM development.

TRIPWIRE

- FY04 Initiate build of DCL DEMO prototypes by selected industry companies.
- FY05 Conduct initial in water trials of competing DEMO developments (Trials 1 &2)
- FY06 Conduct competitive DEMO sea trial; Initiate post MS B EDM development.

	FY 03 (F2854)	FY 04 (F2854)	FY 05 (F2854)
Accomplishments/Effort/Subtotal Cost	9.710	2.521	0.000
RDT&E Articles Quantity			

FY03-Continue Development of ATT components. Continue development of AN/SLQ-25A enhanced EC16 and Littoral Cables for Surface Combatants.

FY04-Complete development of AN/SLQ-25A of enhanced EC16 and littoral cable.

CLASSIFICATION:

IBIT R-2a, RDT&E Project Justification					DATE:	-
ODDIATION/DUDGET AGEN/ITV	IDDOOD ALL	TEMENT NUMBER	ANDNIANE		DDO ISOT NI IMBED AND NAME	February 2004
ROPRIATION/BUDGET ACTIVITY		LEMENT NUMBER			PROJECT NUMBER AND NAME	
&E, N / BA-4	Surface Ship	Torpedo Defense, 06	603506N		Surface Ship Torpedo Defense 0225/28	54
C. PROGRAM CHANGE SUMMARY:						
Funding:		FY 2003	FY 2004	FY 2005		
FY 2004 President's Budget:		14.321	48.347	53.730		
Current BES/ President's Budget: (FY05 Pres	Controls)	13.929	44.891	46.896		
Total Adjustments	•	-0.392	-3.456	-6.834		
Summary of Adjustments						
Miscellaneous Adjustments		-0.392	-3.456	-0.334		
Programmatic Adjustment		0.000	0.000	-6.500		
Subtotal		-0.392	-3.456	-13.334		
Schedule: See Milestone Chart						
Technical:						
Not Applicable						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:	
									February 2004
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	1E	PROJECT N	JMBER AN	D NAME	
RDT&E, N / BA-4		Surface Ship	Γorpedo Defen	se, 0603506N		Surface Ship	Torpedo De	efense 0225/2	2854
D. OTHER PROGRAM FUNDING SUMMARY:									
								То	Total
Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	Cost
OPN BLI: 221300									
Surface Ship Torpedo Defense - SSTD	0.000	13.725	22.273	28.411	8.406	0.281	4.467	CONT.	CONT.
WPN BLI: 311300									
Surface Ship Torpedo Defense - SSTD	0.000	0.000	0.000	3.970	5.811	5.928	8.297	CONT.	CONT.

E. ACQUISITION STRATEGY:

The project develops Surface Ship Torpedo Defense (SSTD) capabilities using an evolutionary acquisition incremental development approach. The existing AN/SLQ-25A NIXIE is upgraded through ECP's performed by the Original Equipment Manufacture (OEM). ATT development will be executed by ARL/PSU for prelimary design and ADM development. AN/WSQ-11 System continued development and integration of the Tripwire and ATT subsystems will be competitively awarded to a single prime contractor in FY06 following Milestone B.

F. MAJOR PERFORMERS:

See attached R3

CLASSIFICATION:

Remarks:

									DATE:						
Exhibit R-3 Cost Ar	alysis (pag	e 1)										February	y 2004		
APPROPRIATION/BUD	GET ACTIVI	TY	PROGRAM E	LEMENT			PROJECT N	IUMBER ANI	D NAME			-			
RDT&E, N / BA-4			Surface Ship	Torpedo Defen	se, 0603506N		Surface Ship Torpedo Defense 0225/2854								
Cost Categories			Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	Cost to Complete	Total Cost	Target Value
Ancillary Hardware Dev	elopment	CPFF	ST Productions, Farmingdal	e, NJ	2.610	01/03	1.300	02/04	0.000		0.000		CONT.	0.000)
Systems Engineering		WX	NUWC, Newport, RI		0.750	12/02	2.057	12/03	0.900	12/04	1.100	12/05	CONT.	0.000)
Systems Engineering		CPFF	PSU, State College, PA		7.819	12/02	19.271	02/04	19.646	12/04	6.410	12/05	CONT.	0.000)
Systems Engineering		CPFF	JHU, Baltimore , MD		0.081	12/02	0.440	12/03	0.200	12/04	0.300	12/05	CONT.	0.000)
Systems Engineering		WX	NSWC, Indian Head, MD		1.261	12/02	1.275	12/03	4.250	12/04	4.300	12/05	CONT.	0.000)
Systems Engineering		WX	NUWC/Keyport,WA		0.600	12/02	0.825	12/03	0.800	12/04	0.500	12/05	CONT.	0.000)
Systems Engineering		WX	FTSCLANT/Norfolk, VA		0.108	12/02	0.000	12/03	0.100	12/04	0.100	12/05	CONT.	0.000)
Systems Engineering	DCL Demo	SBIR	AAC				7.500	02/04	9.900	12/04	2.600	12/05	0.000	20.000	0 40.00
Systems Engineering	DCL Demo	BAA	Contractor TBD				7.500	04/04	9.900	12/04	2.600	12/05	0.000	20.000) 40.00
Systems Engineering	WSQ-11	CPFF	Competitive Award Prime Conf	ractor FY06	0.000		0.000		0.000		28.365	04/05	CONT.	0.000)
															+
															
															+
															+
															+
															1
Subtotal Product Develo	oment			0.000	13.229	,	40.168		45.696		46.275		0.000	0.000)

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Analysis	(page 2)											Februa	ry 2004		
APPROPRIATION/BUDGET A	CTIVITY		PROGRAM E	ELEMENT			PROJECT I	NUMBER A	ND NAME						
RDT&E, N / BA-4			Surface Ship	Torpedo Defer	se, 0603506N		Surface Shi		Defense 0225/2854						
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	Cost to	Total Cost	Target Value of Contract
Development Support	а туре	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	0.000	
Software Development				+										0.000	
Integrated Logistics Support														0.000	
Configuration Management														0.000	
Technical Data														0.000	
Studies & Analyses														0.000	
Miscellaneous					0.000		3.973		0.400		0.400		CONT.	0.000	
Award Fees					0.000		0.070		0.100		0.100		00	0.000	1
7a. a														0.000	
Subtotal Support				0.000	0.000)	3.973	3	0.400	ol	0.400	1	0.000	0.000)

CLASSIFICATION:

									DATE:						
Exhibit R-3 Cost Analysis (pa	age 3)											February	/ 2004		
APPROPRIATION/BUDGET ACTIV	VITY		PROGRAM E	ELEMENT			PROJECT!	NUMBER ANI	D NAME						
RDT&E, N / BA-4			Surface Ship	Torpedo Defen	se, 0603506N		Surface Shi		efense 0225/28	854					
Cost Categories	Contract Method & Type	Performing Activity & Location		Total PY s Cost	FY 03	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	1 ''	1		1			1			1				0.000	,
Operational Test & Evaluation				1										0.000	,
Live Fire Test & Evaluation				1										0.000	,
Test Assets				1										0.000	,
Tooling														0.000	,
GFE														0.000	,
Award Fees														0.000	,
Subtotal T&E				0.000	0.000	ı	0.000	0	0.000	,	0.000		0.000	0.000	,
						т —								T	, ,
Contractor Engineering Support					_	_	_							0.000	
Government Engineering Support		 						+						0.000	
Program Management Support	C/CPFF	EG&G Gaither	sburg, Md		0.600	01/03	0.650	01/04	0.650	01/05	0.650	01/06	CONT.	0.000	
Travel		PMS 415			0.100	11/02	0.100	11/03	0.150	11/04	0.150	11/05	CONT.	0.000	
Transportation	+	 		 	 	 	 	+	+	+			 	0.000	
SBIR Assessment		 		0.000				+	0.800	 	0.800	+		0.000	
Subtotal Management Remarks:	-	1		1 0.000	0.700		0.750	-1	0.000		0.800	-1	0.000	<u> </u>	
Total Cost				0.000	13.929	,	44.89	1	46.896	j	47.47	5	0.000	0.000	ı
Remarks:															

CLASSIFICATION:

EXH	HIBIT R-4, SCHEDULE PROFILE (page 1)					DATE:	February 200)4
	ROPRIATION/BUDGET ACTIVITY SEARCH DEVELOPMENT TEST & EVALUATIO	ON, NAVY / BA-4			EM NOMENCLATU e Ship Torpedo De			
		FY03	FY04 Draft —	FY05	FY06	FY07	FY08	FY09
	AN/WSQ-11 System		ORD WSQ-11 Spec	CDD	MS B WSQ-11 Prime Contract Award	PDR DRR	CDR MS C ST-2 ST-3	LRIP ST-4 ST-5
	Tripwire	Spec Development	Demo Contract Award	CL Demo Pha	Se Demo	EDM Build at TT-1 Software V 1.0 Complete	nd Testing (2) TT-2 TT-3 Software V 2.0 Complete	(2) LRIP TT-4 Software V 3.0 Complete
	Anti-Torpedo Torpedo	Spec	ADM Component	t Build and Testing (8) CT-2 CT-3		nd Testing (17)	LRIP